

CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION



CONDITION INSPECTION
FOR THE
DERBY / SHELTON STATION

GENERAL RECOMMENDATION 3

**CONN. DEPT OF TRANSPORTATION
STATION INSPECTION**

INSPECTION RATING SCALE

The following rating scale is used for inspections:

- 1- Totally deteriorated, or in failed condition.
- 2- Serious deterioration, or not functioning as originally designed.
- 3- Minor deterioration, but functioning as originally designed.
- 4- New condition. No deterioration.
- 5- Not applicable.
- 6- Condition and/or existence unknown.

STATION: Derby/Shelton
LINE: Waterbury
INSPECTION DATE: 11-17-01
INSPECTION AGENCY / FIRM: UA
INSPECTORS: JFS, WV, RGW
WEATHER: Sunny

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 2 OF 21

PARKING ELEMENTS

QUADRANT # I

TYPE OF SURFACE: asphalt x PAVED; _____ GRAVEL; _____ DIRT;
_____ OTHER (DESCRIBE)

CONDITION OF PAVED SURFACE: 4

CONDITION OF STRIPING: 3

CONDITION OF BASIN / DRAINS / ETC: 4

(FOR LOCATION SEE SHEET: see sketch)

SIGNAGE: 4

FENCE AND GUARDRAIL: 5

LANDSCAPE: 3

SIDEWALK: 5

CURB: 5

QUADRANT # II

TYPE OF SURFACE: asphalt x PAVED; _____ GRAVEL; _____ DIRT;
_____ OTHER (DESCRIBE)

CONDITION OF PAVED SURFACE: 4

CONDITION OF STRIPING: 4

CONDITION OF BASIN / DRAINS / ETC: 4

(FOR LOCATION SEE SHEET: see sketch)

SIGNAGE: 4

FENCE AND GUARDRAIL: 5

LANDSCAPE: 3

SIDEWALK: 5

CURB: 5

STATION: Derby/Shelton
LINE: Waterbury
INSPECTION DATE: 11-17-01
INSPECTION AGENCY / FIRM: UA
INSPECTORS: JFS, WV, RGW
WEATHER: Sunny

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
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PARKING ELEMENTS

QUADRANT # III

TYPE OF SURFACE: asphalt x PAVED; _____ GRAVEL; _____ DIRT;
_____ OTHER (DESCRIBE)

CONDITION OF PAVED SURFACE: 4

CONDITION OF STRIPING: 4

CONDITION OF BASIN / DRAINS / ETC: 4
(FOR LOCATION SEE SHEET: see sketch)

SIGNAGE: 4

FENCE AND GUARDRAIL: 4

LANDSCAPE: 3

SIDEWALK: 5

CURB: 5

STATION: Derby-Shelton
 LINE: New Haven-Waterbury Branch
 INSPECTION DATE : February 11, 2002
 INSPECTION AGENCY / FIRM: Parsons Brinckerhoff
 INSPECTORS: Jim Connell & Dave Lang
 TIME OF INSPECTION: A.M.
 WEATHER: Cold and Clear

CONN. DEPT OF TRANSPORTATION
 STATION INSPECTION REPORT
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PLATFORM --- LIGHTING

Span Number	Fixture Type	Manufacturer	Model Number	Rating	Support Condition	Estimated Age/Life(y/y)	Visual Condition
all	HID-HPS	Holophane	unknown	3	3	15/ 20	minor deterioration

Remarks: A typical section of the platform was measured at the location indicated and found to average
18.8 fc.
The platform luminaires appear to be operating satisfactory, but the lenses are yellowing.

PLATFORM --- LIGHTING LEVELS (fc)

TRACKS----{

see remarks	see remarks	avg 18.8	see remarks	see remarks	see remarks
NORTHBOUND/SOUTHBOUND PLATFORM					

STATION: Derby-Shelton
 LINE: New Haven-Waterbury Branch
 INSPECTION DATE : February 11, 2002
 INSPECTION AGENCY / FIRM: Parsons Brinckerhoff
 INSPECTORS: Jim Connell & Dave Lang
 TIME OF INSPECTION: A.M.
 WEATHER: Cold and Clear

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PLATFORM --- SERVICE

Voltage Rating (V)	unknown	Type of 3 phase connection		Delta	n/a	Wye	n/a
		Method of Entrance		Overhead	n/a	Underground	X
Rating of Main Breaker (A)	unknown	Origin of Service		Pole	n/a	Transformer	n/a
		Code Compliant		Yes	X	No	n/a
Quantity of Phases	unknown	Pole Number & Street	N/A	Wire Sizes	unknown		

Remarks: The power source to the platform originates from the station building, we were unable to gain access to the building to verify the number of circuits to the platform.

PLATFORM --- ELECTRICAL SYSTEMS

Electrical Device	Manufacturer	Model Number	Rating	Location	Estimated Age/Life(y/y)	Visual Condition
Main Distribution Panel	n/a	n/a	n/a	n/a	n/a	n/a
Main Disconnect Switch	n/a	n/a	n/a	n/a	n/a	n/a
Transformer	n/a	n/a	n/a	n/a	n/a	n/a
Receptacles	n/a	n/a	n/a	n/a	n/a	n/a
Grounding	unknown	unknown	unknown	unknown	unknown	unknown
Lighting Controls	unknown	unknown	3	platform	15/ 20	minor deterioration
Public Telephone	unknown	unknown	n/a	platform	unknown	operational
Station Telephone	n/a	n/a	n/a	n/a	n/a	n/a

Remarks: _____

STATION: Derby-Shelton

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INSPECTORS: Jim Connell & Dave Lang

DATE: February 11, 2002

STATION PLATFORM --- ELECTRICAL AND LIGHTING SUMMARY

The power source for the electrical equipment comes from a panelboard in the station building. The condition of this panelboard is unknown as the station building was excluded from our inspection. There were no receptacles or other non-lighting electrical equipment located on the platform.

The IESNA recommends lighting levels to average at least five foot-candles for railroad station platforms and this station platform measured 18.8 foot-candles. Although light levels exceed the minimum, the light fixture lenses are discoloring because of the lamps heat, ultra violet rays from the sun, and the lamps ultra violet. This discoloration is reducing the light level of the fixtures and also reducing the physical strength of the lens against vandalism. We recommend that the lenses of the fixture be replaced to better replicate the characteristics of the manufacturers' design.

STATION: Derby/Shelton

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INSPECTORS: D. Lang DATE: February 11, 2002

STATION – MECHANICAL SUMMARY

The task at the Derby/Shelton station was to inspect only the platform. There are no gutters or downspouts on the platform canopy. Gutters and downspouts should be installed.

STATION: Derby-Shelton
LINE: New Haven-Waterbury Branch
INSPECTION DATE: April 3, 2002
INSPECTION AGENCY/FIRM: Warren & Panzer Engineers
INSPECTORS: Josue Garcia/Bosun Ogunnaike
WEATHER: Good

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HAZARDOUS MATERIALS INSPECTION

LEAD-BASED PAINT

Note: The LBP inspection was conducted using an RMD LPA-1 spectrum X-Ray Fluorescence Analyzer (XRF). The Department of Housing and Urban Development (HUD) recommend XRF analysis for inspection of lead in paint. XRF readings were taken of surfaces coated with suspect LBP. The XRF was operated in "Quick Mode" for this project. In Quick Mode, the measurement time is determined by the LPA-1 Analyzer to achieve a 95% confidence measurement compared to an action level (1.0 mg/cm²).

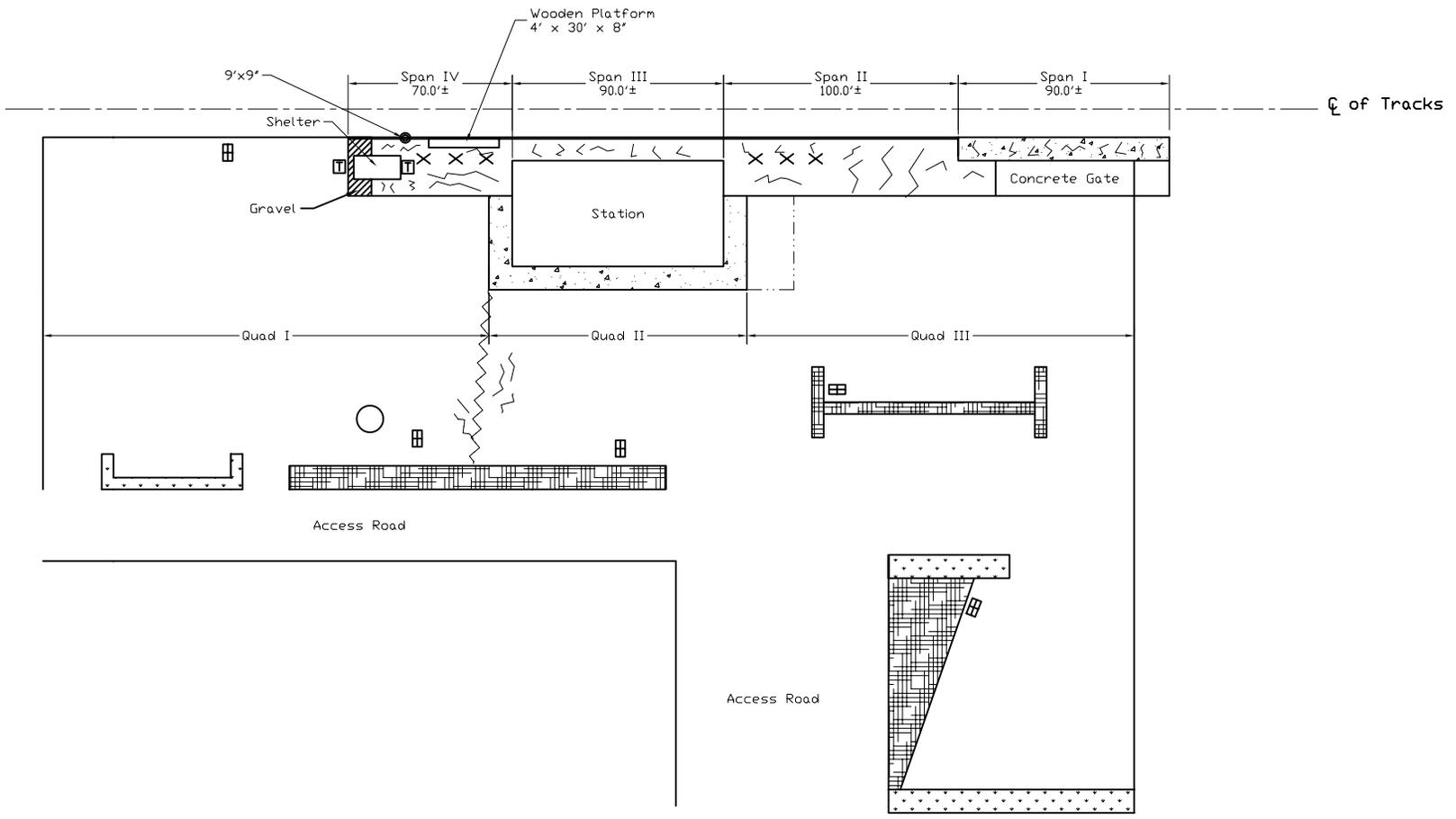
Platform

Surfaces Tested	# of Locations Tested	Lead Presence (>1 mg/cm ²)	Rating
Canopy Columns, Beams, Deck and Brackets	6	Yes	3
Platform Warning Strip	5	Yes	2
Metal Column Casings	2	No	3

Lead-Based Paint was found on surfaces noted above. Painted platform warning strip was found to be in poor condition. Other painted surfaces were found to be in fair to good condition. Any future disturbance of the lead-based painted surfaces noted above should be abated by an Environmental Protection Agency/Connecticut Abatement Contractor in accordance with the EPA's 40 CFR 745, HUD's 24 CFR Part 35 and The HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, OSHA's 29 CFR 1926.62, and all other applicable regulations.

SUSPECT ASBESTOS-CONTAINING MATERIALS

No suspect asbestos-containing materials were observed during our site visit.



- Legend:
- Guardrail
 - ~~~~~ Crack
 - [Stippled Box] Grass
 - [Dotted Box] Sidewalk
 - [Grid Box] Asphalt Median
 - Sanitary Manhole
 - [Cross-hatched Box] Drain
 - Missing or Spalled Curb
 - × Canopy Column
 - [Square with X] Trashcan

NOTES:

1. On the eastside of Span II-IV the surface is uneven by 2' in depth and 9' wide.

Urbitran Associates, Inc.
Connecticut Dept. of Transportation
Derby/Shelton Station General Plan
Date: 11-19-01

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STATION INSPECTION REPORT
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PHOTO NO. 1

Location:
Southwest corner of
Quad III

Description:
General view of the
station

Reference:
Looking northeast



PHOTO NO. 2

Location:
South end of the
platform

Description:
General view of the
platform

Reference:
Looking north



STATION: Derby / Shelton Station

INSPECTORS: JFS, WV, RGW

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STATION INSPECTION REPORT
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PHOTO NO. 3

Location: North end of Quad I

Description: General view of Quad I

Reference: Looking south



PHOTO NO. 4

Location: Southend of Quad I

Description: General view of Quad I

Reference: Looking north



STATION: Derby / Shelton Station

INSPECTORS: JFS, WV, RGW

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PHOTO NO. 5

Location: North end of Quad III

Description: General view of Quad II

Reference: Looking south

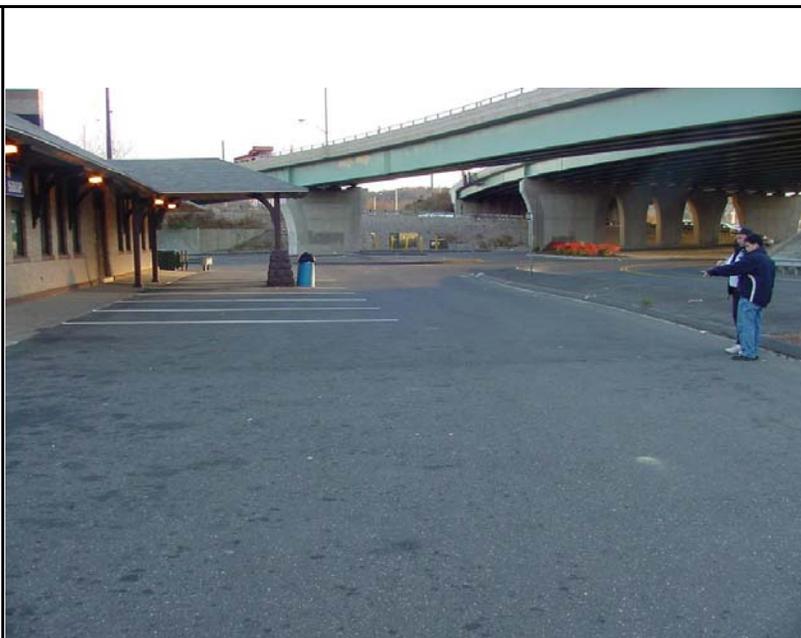


PHOTO NO. 6

Location: North side of Quad III

Description: General view of the east side of Quad III

Reference: Looking south



STATION: Derby / Shelton Station
INSPECTORS: JFS, WV, RGW

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PHOTO NO. 7

Location: North side of Quad III

Description: General view of Quad III

Reference: Looking southwest



PHOTO NO. 8

Location: Southwest corner of Quad III

Description: General view of Quad III

Reference: Looking northeast



STATION: Derby / Shelton Station

INSPECTORS: JFS, WV, RGW

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PHOTO NO. 9

Location:
North of the concrete
sidewalk

Description:
The concrete sidewalk
is cracked; graffiti is
present throughout the
concrete gate.

Reference:
Looking south



PHOTO NO. 10

Location:
South end of the
platform

Description:
The asphalt surface
is cracked

Reference:
Looking north



STATION: Derby / Shelton Station

INSPECTORS: JFS, WV, RGW

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STATION INSPECTION REPORT
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PHOTO NO. 11

Location: South end of Span III

Description: The warning strip is fading and there is a drop in elevation of 2" between the platform curb and the asphalt platform

Reference: 12
Looking north



PHOTO NO. 12

Location: Middle of Span IV

Description: The paint on the underside of the canopy roof is chipped

Reference: Looking up and north



STATION: Derby / Shelton Station

INSPECTORS: JFS, WV, RGW

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STATION INSPECTION REPORT
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PHOTO NO. 13

Location: East of the shelter

Description: Burnt holes and scratches are present in the windows of the shelter

Reference: Looking west



PHOTO NO. 14

Location: Northwest corner of Quad II

Description: A asphalt crack extends the width of Quad II

Reference: Looking east



STATION: Derby / Shelton Station

INSPECTORS: JFS, WV, RGW

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STATION INSPECTION REPORT
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PHOTO NO. 15

Location:
platform

Description:
platform lighting

Reference:
Platform Lighting
Section



PHOTO NO. 16

Location:
platform

Description:
platform lighting

Reference:
Platform Lighting
Section



STATION: Derby-Shelton
INSPECTORS: Jim Connell & Dave Lang

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STATION INSPECTION REPORT
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PHOTO NO. 17

Location:
DERBY/SHELTON
STATION

Description:
Station Name

Reference:
Mechanical



PHOTO NO. 18

Location:
DERBY/SHELTON
STATION

Description:
View of platform,
no gutters or
downspouts on
canopy

Reference:
Mechanical



STATION: DERBY/SHELTON

INSPECTOR: D. Lang

Derby / Shelton Station

Description	Units	Quantity	Price / Unit	Total Cost
<u>Replace the platform</u>				
-Remove concrete sidewalk	yd ³	17.00	\$30.00	\$510.00
-Remove asphalt platform	yd ³	95.00	\$30.00	\$2,850.00
-Install asphalt platform	yd ²	675.00	\$25.00	\$16,875.00
-Install warning strip	ft ²	260.00	\$18.00	\$4,680.00
Removal and repainting the underside of the canopy	ft ²	4000.00	\$18.00	\$72,000.00
Replace the lenses on the canopy luminaires	Each	12.00	\$200.00	\$2,400.00
Installation of gutters and downspouts on the platform	Lump Sum	-	-	\$10,000.00
Miscellaneous (windows/hardware)	Lump Sum	-	-	\$1,000.00
Mobilization / Demobilization (10%)				\$11,031.50
Sub-total				\$121,346.50
Contingency (20%)				\$24,269.30
Grand Total				\$145,615.80
Say				\$146,000.00